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ENVIRONMENTAL DIAGNOSTIC LABORATORIES
PO. Box 2890
231 Front Street
South Portland, Maine 04106

1 (800) 992-0150 • 1 (207) 767-2818 • FAX: (207) 767-6321

CONTACT	
JOB NAME/NUMBER _	95-499,18
LOCATION	Mappe

TEL # 207 657 2866

COLLECTOR G. BUCHLIN

TRACKING # 95-499.1 5

PO#

TRACKING # 10 4	1111 2								PO #
FIELD IDENTIFICATION	DATE	TIME	SAMPLE MATRIX	CONTAINER VOL./TYPE					ANALYSIS REQUESTED
SWC #1	11-13-95	10:30	Son	1-40ML	AGGER (JA)				TPH-FUEL OIL MENSO 4.1.1/4.1.2
SHC #2	11-13-95	11:35	Son	1 452 P.	A1716			Ø	MEIALLY AS, CD, Cr, CU, Pb. MI, 2n, Ag
SHE # 3	11-13-95	11:45	J'o1L	1-4021	:AKTIC				to the contraction
SHC #4	11-13-95	12:15	SolL	1-40 ML	amole Ulasi				VOC 8.240 (TABLE # 1 SH-846)
SHC #5	11-13-93	15 (To	Sula	1.4021					METALL: AS, CU, CT, CU, Pb, Ni, ZM, Ay.
SHLAL	11-13-95	16:10	SOIL	2-40 ML	AMBIR			<u>.</u>	PCB 8080
·									
									·
		<u> </u>	<u> </u>		<u> </u>			<u> </u>	
RELINQUISHED BY:	Q . I	7	DA1			RECEIV	ED BY:	~~ 0.1	DATE: TIME:
フナカッ	0000	<u> </u>	11-19	1-95 10	130	179	whe C	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	-A 11/14/15 10.30

MAINE ENVIRONMENTAL LABORATORY 198 Main Street, Yarmouth, Maine 04096-1690

TEL. 207-846-6569 TEL. 207-846-4673 FAX 207-846-9066

G. Bucklin S.W Cole Engineers, inc. Po Box 378 Gray, ME 04039 January 05, 1995

Report No.: SWE007-95

Enclosed are the results of the analysis of your sample(s). Samples were received in acceptable condition and were analyzed within the holding times specified in the referenced methods. All quality control data including method blank samples, matrix spike samples, duplicate samples and laboratory control samples were within laboratory acceptance limits. If you have questions regarding this report, please do not hesitate to call.

So. Windham SWE00795-01 Matrix spike Report

REFERENCES

- SW8 SW/846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, USEPA, Third Edition, 1986.
- EPA EPA600/4-79-020, Methods for Chemical Analysis of Water and Wastes USEPA, Cincinnati, Ohio, March, 1983.
- STM Standard Methods for the Examination of Water and Wastewater, 17th Edition, APHA, AWWA, WPCF, 1989.

Maine Environmental Laboratory is certified by the states of Maine, Massachusetts and New Hampshire. A List of actual certified tests is available upon request

Authorized signature

Herbert S. Kodis, Laboratory Director

MAINE ENVIRONMENTAL LABORATORY 198 Main Street, Yarmouth, Maine 04096-1690

TEL. 207-846-6569 TEL. 207-846-4673 FAX 207-846-9066

G. Bucklin

S.W. Cole Engineers, Inc.

Gray, ME

Sample ID : S-1

Project No. : So. Windham

: G. Bucklin Sampled by

Date Sampled: 12/21/95 Date Received: 12/21/95

Page 1 of 2

Lab ID : SWE00795-01

Report: 01/05/96

C. 8

Matrix : Soil

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Parameter	TCLP Results mg/L	Date Analyzed	Detection E Limit mg/L	Regulatory Limit mg/L	Spike Recovery
Arsenic Barium Cadmium Chromium Lead Mercury lenium	<0.04 <0.5 <0.01 <0.2 <0.1 <0.002 <0.04 <0.1	12/26/95 12/27/95 12/27/95 12/27/95 12/27/95 12/26/95 12/26/95 12/27/95	0.04 0.5 0.01 0.2 0.1 0.002 0.04 0.1	5.0 100.0 1.0 5.0 5.0 0.2 1.0 5.0	91.0 % 91.0 % 93.0 % 90.0 % 86.0 % 95.0 % 86.0 %

Extraction Data

Extraction Fluid #1 is 0.57% acetic acid adjusted to pH 4.93 10.15 pH units Initial pH:

pH: 6.58 pH units Final

Extraction: 18 hours (+/-0.05 pH units) with 1.0N NaOH.

Extraction: Fluid #1 Extraction: 12/21/95

METHODOLOGY REFERENCES

Arsenic	1311	Federal	Register/7060	SW-846
Barium	1311	Federal	Register/7090	SW-846
Cadmium			Register/7130	
Chromium	1311	Federal	Register/7197	SW-846
Lead			Register/7420	
Mercury			Register/7470	
Selenium	1311	Federal	Register/7740	SW-846
Silver	1311	Federal	Register/7760A	SW-846

Matrix spike recovery is below acceptable limits, analysis is by the method of standard additions.

MAINE ENVIRONMENTAL LABORATORY 198 Main Street, Yarmouth, Maine 04096-1690

TEL. 207-846-6569 TEL. 207-846-4673 FAX 207-846-9066

S.W. Cole Engineers

Page 2 of 2

Gray, ME G. Bucklin

Sampling Technician: G. Bucklin Sampling Date : 12/21/95

Sample : S-1

: 12/21/95 : Soil

Sample Matrix Date Received

Report: 01/05/96 Project: So. Windham Lab ID: SWE00795-01

W.

Date Received

: 12/21/95

Parameter	Data	Units	MDL	Analyzed	Methodology	
Corrosivity Ignitability	8.75 >160	s.u. Degrees F	0.01	12/22/95 01/04/96	9045C 1010	SW8

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PROJECT MANAGER				TELEPH				FAX #	1		510		1								5
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J.M. CORE EMPINE			171						·		6										₩C
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SAMPLE	CONTAINERS	SERS	FIE FILTA	LD ATION	SAMPLE	9	ē.	метнор	SAM	PLING	S WR								E K	Ä	TIME 329
IDENTIFICATION	* CONT.	TYPE OF CONTAINERS	YES ·	МО	MATRIX	GRAB	COMP.	PRESERVED	DATE	TIME	CR								13:	F	1.3.5.
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195 Commerce Way Portsmouth, New Hampshire 03801 603-436-5111 Fax 603-430-2151 800-929-9906

Mr. Herb Kodis Maine Environmental Laboratory, Inc. PO Box 1107 Yarmouth, ME 04096

December 29, 1995

Re: SWE 007-95

Enclosed are the results of the analyses on your sample(s). Please see individual reports for specific methodologies and references. Samples were received in acceptable condition, with the exceptions noted on the chain of custody.

If you have any further question on the analytical methods or these results, do not hesitate to call.

Lab NumberSample DateStation LocationAnalysisComments35881-112/21/95S-1EPA 8270 (TCLP)

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, and Massachusetts. A list of actual certified tests is available upon request.

Authorized signature



195 Commerce Way Portsmouth, New Hampshire 03801 603-436-5111 Fax 603-430-2151 800-929-9906

December 29, 1995

Mr. Herb Kodis

Maine Environmental Laboratory, Inc.

PO Box 1107

Yarmouth.

ME 04096

CLIENT SAMPLE ID

Client Project: SWE 007-95

Project Number:

Station ID:

S-1

SAMPLE DATA

Lab #: 35881-1 Matrix: Soil Dilution Factor: 5.0 Collection Date: 12/21/95 Lab Receipt Date: 12/22/95 TCLP Extraction Date: 12/21/95 Preparative Extraction Date: 12/27/95

Analysis Date:

12/28/95

ANALYTICAL RESULTS

COMPOUND	Detection Limit: µg/L	Result: µg/L	Regulatory Limit: µg/L	Matrix Spike Percent Recovery:
o-Cresol	25	ND	200,000	28
m,p-Cresol	25	ND	200,000	23
1,4-Dichlorobenzene	10	ND	7,500	45
2,4-Dinitrotoluene	10	ND	130	74
Hexachlorobenzene	10	ND	130	76
Hexachlorobutadiene	10	ND	500	46
Hexachloroethane	10	ND	3,000	43
Nitrobenzene	10	ND	2,000	59
Pentachlorophenol	50	ND	100,000	101
Pyridine	10	ND	5,000	35
2,4,5-Trichlorophenol	25	ND	400,000	57
2,4,6-Trichlorophenol	25	ND	2,000	49
	Surrogate Stan	dard Recov	ery	
Base Neutral Surrogates		Acid Sur	rogates	*
d5-Nitrobenzene	92 %	2,4,6-Tri	bromophenol	<i>57 %</i>
2-Fluorobiphenyl	97 %	2-Fluoro		<10* %
d14-p-Terphenyl	87 %	d5-Pheno	ol	<10* %

METHODOLOGY: TCLP sample extraction was performed according to "Test Methods for Evaluating Solid Waste, SW-846 Method 1311." TCLP extract analysis was conducted according to "Test

Methods for Evaluating Solid Waste, SW-846 Method 8270."

COMMENTS: *Surrogate recoveries affected by sample matrix.

Mylad (Day-VIL_RESP02477

ALFHA ANALYTICAL LABORATORIES

Eight Walkup Drive Westborough, Massachusetts 01581-1019 (508) 898-9220

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

CERTIFICATE OF ANALYSIS

Client: Maine Environmental Labs

Laboratory Job Number: L9509769

Address: P.O. Box 1107

Invoice Number: 80163

Yarmouth, ME 04096

Date Received: 22-DEC-95

Attn:

Tammy MacLeod

Date Reported: 05-JAN-96

Project Number: SWE007-95

Delivery Method: Alpha

Site:

ALPHA SAMPLE NUMBER

CLIENT IDENTIFICATION

SAMPLE LOCATION

L9509769-01

S-1

Authorized by:

Scott McLean - Laboratory Director

059603:29 Page 1

ALPHA ANALYTICAL LABORATORIES CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

asoratory Sample Number: L9509769-01

S-1

Sample Matrix:

SOIL

Date Collected: 21-DEC-95
Date Received: 22-DEC-95

Date Reported: 05-JAN-96

Condition of Sample:

Satisfactory

Field Prep:

None

Number & Type of Containers: 1 Amber Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	78.	*	0.10	3	2540B	05-Jan	ST
Extractable Organic Halides	ND	mg/kg	130	32	App. D	02-Jan	SF
Cyanide, Reactive	ND	mg/kg	0.25	1	7.3	05-Jan	ST
Sulfide, Reactive	ND	mg/kg	0.20	1	7.3	05-Jan	ST

omments: Complete list of References and Glossary of Terms found in Addendum I

3596v3:29

Page 2

ALPHA ANALYTICAL LABORATORIES QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L9509769

Parameter	Value 1	Value	2 -RPD	Units
Extractable Organic Halide	es DUPLICAT	E for sam	ple(s) 01	
	ND	ND	NC	mg/kg
Cyanide, Reactive	DUPLICAT	E for samp	ple(s) 01	
	ND	ND	NC	mg/kg
Sulfide, Reactive	DUPLICAT	E for samp	ole(s) 01	
	ND	ND .	NC	mg/kg

ALPHA ANALYTICAL LABS ADDENDUM I

REFERENCES

- Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. 1986.
- Standard Methods for Examination of Water and Waste Water. APHA-AWWA-WPCF.
 17th Edition. 1989.
- 32. Development and Evaluation of Methods for Total Organic Halide and Purgeable Organic Halide in Wastewater. EPA-600/4-84-008, 1984.

GLOSSARY OF TERMS AND SYMBOLS

EF Reference number in which test method may be found.

ETHOD Method number by which analysis was performed.

Initials of the analyst.

05903:29 Page 4

ALPHA ANALYTICAL LABS ADDENDUM I

VIL_RESP02482

REFERENCES

- Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. 1986.

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- Standard Methods for Examination of Water and Waste Water. APHA-AWWA-WPCF.
 17th Edition. 1989.
- 32. Development and Evaluation of Methods for Total Organic Halide and Purgeable Organic Halide in Wastewater. EPA-600/4-84-008, 1984.

GLOSSARY OF TERMS AND SYMBOLS

EF Reference number in which test method may be found.

ETHOD Method number by which analysis was performed.

D Initials of the analyst.



FINAL REPORT

DATE:

04/30/1996

CUSTOMER:

SW COLE ENGINEERING #95-499.2

SAMPLE DESCRIPTION: SOUTH WINDHAM, ME

PROJECT MANAGER:

GARY BUCKLIN

DATE RECEIVED:

04/29/1996

LAB SAMPLE NUMBER: 00006850

G. BUCLUIN MPANY DRESS QUECT NAME DWEDD-95				ASE ORDER #	. C ,		FAXI				علفاجات كبانه	wity ayanide			RECEIVED BY:	RECEIVED BY: Cempter	RECEIVED BY LABORATORY
	* CONTAINERS TYPE OF	FILTR FILTR YES		SAMPLE MATRIX	GRAB	COMP.	METHOD PRESERVED		PLING	EOX	Peactivitu	Recientivitu			TIME	1:30	TIME
5-1	1 G		V .	soie		/	Cool	12/21	10:55	×	X	X			DATE	DATE	
TURI PROUND REQUEST Standard Priority (SURCHARGE)	Rec Tem	np. Blank °	ood con	dition ge	es (n Ice p	no nacks.	REMARK Quote #	asa Rue	SUITS						ELINQUISHED BY SAMPLER:	RELINOUISHED BY:	(-/V)-)- Q

CHAITOURISHER TAINGREET TRIOLISMES

UNIT

Sample — 00006850-001 Information - SWC-1

Comment ——SW COLE ENGINEERING #95-499.2

COLLECTED: 04/29/1996 10:45

BY: G BUCKLIN

RECEIVED: 04/29/1996 11:30

TEST DESCRIPTION

12021.22 (0.03.13)0 11.00

888801F _

RESULT

DETECTION METHOD#

TESTED/ANALYST

Diesel Range Organics

12 mg/Kg DW 5 MEDEP 4.1.25 04/30/1996 HMW
This analysis conducted by GC/FID.
Sample showed presence of hydrocarbon material of
unknown identity. Chromatographic "fingerprint" is
indicative of heavy molecular weight hydrocarbons.
The "fingerprint" is atypical and does not resemble
#2 Fuel Oil.

ample Extraction Date
-Terphenyl Surrogate Recovery

04/30/1996

DWS

% 04/30/1996 HMW Coeluting peak(s) interfered with surrogate recovery.

.mple — 00006850-002

Comment ---- SW COLE ENGINEERING #95-499.2

formation - SWC-2

GLLECTED: 04/29/1996 10:50

BY: G BUCKLIN

RECEIVED: 04/29/1996 11:30

EST DESCRIPTION

RESULT

DETECTION METHOD#

TESTED/ANALYST

iesel Range Organics

ND

mg/Kg DW

MEDEP 4.1.25

04/30/1996 HMW

04/30/1996 89

This analysis conducted by GC/FID.

DWS

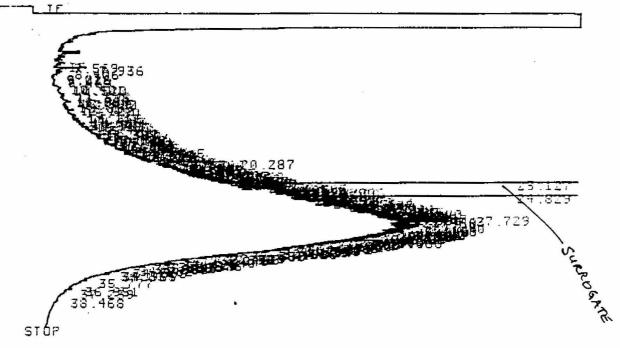
unple Extraction Date Terphenyl Surrogate Recovery

UNIT

04/30/1996 HMW

* RUN # 514 APR 30, 1996 14:20:52

START



Closing signal file M:SIGNAL .BNC

RUN# 514 APR 30, 1996 14:20:52

METHOD NAME: M*FUEL MET

SIGNAL FILE: M:SIGNAL BNC

2.5UL DI 6850-001 WITH SURR

* RUN # 513 APR 30, 1996 13:31:36

START

IF

18.924
20.593

23.124

29.189
30.685

BEFBX

Closing signal file M:SIGNAL .BNC

RUN# 513

ÇΤ

METHOD NAME: M*FUEL .MET

SIGNAL FILE: M:SIGNAL.BNC

2.5UL DI 6850-002 WITH SURR

APR 30, 1996 13:31:36

APES TYPE WINTH

Environmental Diagnostic Laboratories

Sample ---- 00006850-002

Comment ---- SW COLE ENGINEERING #95-499.2

Information - SWC-2

COLLECTED: 04/29/1996 10:50

BY: G BUCKLIN

RECEIVED: 04/29/1996 11:30

TEST DESCRIPTION

RESULT

UNIT DETECTION METHOD#

TESTED/ANALYST

*** ANALYSTS

DWS

HMW

ND

MICHELE L. FEROAH MLF

STEVEN J. RUSSO SJR

DAVID W. SANKEY

HENRY M. WHEAT

WHEN REPORTED IN THE RESULT COLUMN INDICATES THAT THE PARAMETER BEING ANALYZED WAS NOT DETECTED.

Method Detection Limits (MDL's) are calculated in accordance with 40 CFR Part 136, Appendix B.

KEY TO METHOD REFERENCES:

"Standard Methods for the Examinaton of Water & Wastewater" STDM-APHA 18th Edition

"Methods of Chemical Analysis of Water & Wastes" USEPA, EMSL-Cincinnati (EPA600/4-79-020) 1983

SW-846- "Test Methods for Evaluating Solid Waste" USEPA Office of Solid Waste & Emergency Response 1986

HANK WHEAT

boratory Director



CHAIR F CUSTODY

	,		
PAGE		OF	1

CLIENT	-	1-1	N. N	. t	٤		$i \in I_{\infty}$	
ADDRESS-		<i>1</i> · · ·	, ,	·/ <u>·</u>	,1	7:		
		, ,			41			

ENVIRONMENTAL DIAGNOSTIC LABORATORIES

P.O. Box 2890 231 Front Street South Portland, Maine 04106

1 (800) 992-0150 • 1 (207) 767-2818 • FAX: (207) 767-6321

PAGE	<u> </u>	_OF _		
CONTACT	6A83	1 100	c/In	j.

CONTACT		
JOB NAME/NUMBER	.3~	45 -491 ~

LOCATION _ Se MAJORIAN OF COLLECTOR ______ & d C/LEY

TRACKING #									PO #		
FIELD IDENTIFICATION	DATE	TIME		CONTAINER VOL./TYPE					ANALYSIS REQU	ESTED	
Svic - 1	-1-25-56	10-45	. 1 - '	45 Ms 47/4%	Code Sign	C4 j			TPA FUE SI-	No.2 4 11	14.12
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HELINQUISHED BY:	Seekil.		DATI		ME: : 3 o	RECEI	VED BY:	7/1/		DATE:	TIME:
RELINQUISHED BY:			DATI		IE:	RECEIN	VED BY:			DATE:	TIME:
RELINQUISHED BY:		124	DAT	E: TII	ME:	RECEI	VED BY:			DATE:	TIME:

* RUN # 509 ' APR 30, 1996 10:12:49 START 7.910 8.536 12.072.362 15.92\$5.674 16.546 18.905 19.120 иии 23.141 27.762 Z4.616 26.884 29.245 31.644 STOF

Closing signal file M:SIGNAL .BNC

RUN# 509

APR 30, 1996 10:12:49

METHOD NAME: M*FUEL.MET

SIGNAL FILE+ M:SIGNAL . BNC

2.5UL DI 10 PPM DRO STANDARD WITH SURR

* RUN # 511 APR 30, 1996 11:52:51 START

17.032 18.032 23.138 30.940

Closing signal file M:SIGNAL .BNC

RUN# 511 APR 30, 1996 11:52:51

METHOD HAME: M*FUEL.MET

SIGNAL FILE: M:SIGNAL . BNC

2.5UL DI METHOD BLANK WITHSURR

Environmental Diagnostic Labs 231 Front Street South Portland ME 04106 207-767-2818

INVOICE

DATE: 04/30/1996 NUMBER: 96040213

ACCOUNT: S230

Attn: Accounts Payable S.W. Cole Engineers 6 Liberty Drive Bangor ME 04401

PURCHASE ORDER:

CLIENT: SW COLE ENGINEERING #95-499.2

PROJECT:

Page 1

DATE	SAMPLE #	TEST DESCRIPTION	FEE
04/29/1996	00006850-001	DRO DEP 4.1.25	140.25
04/29/1996	00006850-002	DRO DEP 4.1.25	140.25
04/30/1996	00006850-002	PRIORITY SURCHARGE	280.5C



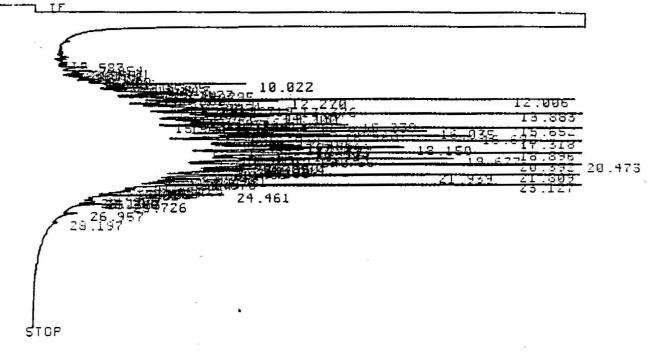
15

************ TOTAL:

561.00

RESULT = 629 Mg/Kg CERTIFIED VALUE = SEE ATTACHED

RUN # 512 APR 30, 1996 12:42:12 START



Closing signal file M:SIGNAL .BNC

RUN# 512 APR 30, 1996 12:42:12

METHOD NAME: M*FUEL.MET

SIGNAL FILE: M:SIGNAL .BNC

2.5UL DI ERAQC 40006 1:20 WITH SURR

AREA%

AREA TYPE WIDTH AREA% RT

Hydrocarbon Fuels in Soil

Quality Control Standards

Catalog Nº 365

Lot Nº 40006

Parameter	Certified Value	Performance Acceptance Limits™
Unleaded Gasoline	mg/Kg	mg/Kg
(Catalog No. 763)	1600	621 - 2320
No. 2 Diesel	mg/Kg	mg/Kg
(Catalog No. 765)	1210	615 - 1550
BTEX In Soil (Catalog No. 761) Benzene Ethylbenzene Toluene o-Xylene m-Xylene p-Xylene	μg/Kg 174 92.0 38.2 101 133 188	µg/Kg 106 - 233 66.8 - 118 27.5 - 49.7 73.9 - 130 97.4 - 172 138 - 243

The Certified Values are equal to 100% of the parameters in the indicated standard.

The Performance Acceptance Limits (PALsTM) are listed as guidelines for acceptable analytical results given the limitations of the USEPA methodologies commonly used to determine these parameters and closely approximate the 95% confidence interval. The PALsTM are based on data generated by your peer laboratories in ERA's InterLaBTM program using the same samples you are analyzing and data from USEPA methods, WP, WS and CLP interlaboratory studies. If your result falls outside of the PALsTM, ERA recommends that you investigate potential sources of error in your preparation and/or analytical procedures. For further technical assistance, call ERA at 1-800-372-0122.

